PRODUCTION RELEASE & REVISION						
REV	DESCRIPT'N/BUYER	DWG No	PARTS No.	BY	CHK	DATE
~~A~~	~~INITIAL~~	~~----------~~	~~50301506~~	~~Y.Y.KIM~~	~~N.C.PARK~~	~~09-25-M2~~
A	기능추가로 내용변경	----------	50301611	Y.Y.KIM	N.C.PARK	12-10-M2

NOTES

1.MODEL: AMC15LCD, AMC15LCDX / ADEMCO
2.MATERIAL: ART PAPER 100g/m^2, WHITE
BIND : STAPLES-2
FINISH: ----------
4.COLOR: TEXT-BLACK
5.SIZE: 148(+/-5)mm x 210(+/-5)mm R: 0.0
6.ANY CHANGE OR ALTERNATION MUST BE APPROVED BY HITRON ENGINEERING.

협의	전자	영업		
	전주원 팀원 확인	최희석 팀원 확인		
	12 / 10	09 / 18		

50301611

ITEM	DESCRIPTION/MATERIAL	QTY
	PARTS LIST	

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM. - TOLERANCE LABEL +/- 1.5 MANUAL +/- 3.5 ANGULAR +/- 0.5

APPROVALS	DATE	
N.C.PARK	12-10-M2	HITRON
CHKED		TITLE: MANUAL INSTRUCTION
DRAWN Y.Y.KIM	12-10-M2	SIZE A4 / DWG No ---------- / REV. A
		P/N / SCALE DO NOT SCALE

MATERIAL 2
FINISH 3

15-Inch Color TFT-LCD Monitor

Installation and Operating Instructions

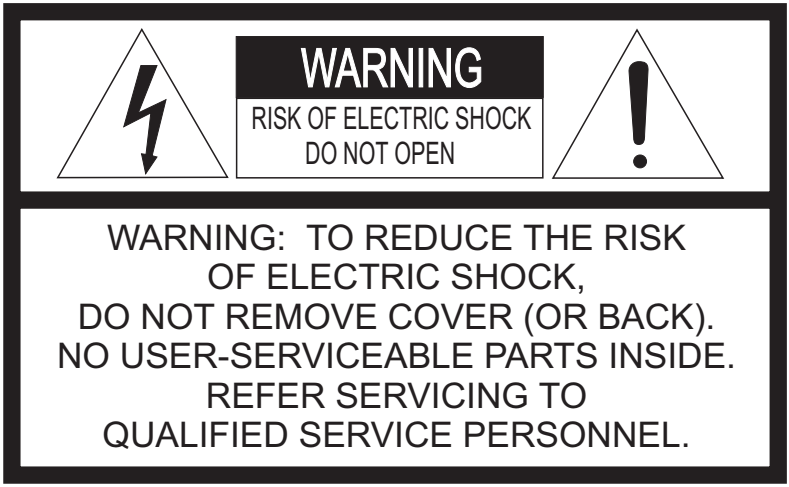
AMC15LCD
AMC15LCDX

ADEMCO VIDEO

All information was correct at the time of publication. ADEMCO Video reserves the right to make changes and improvements to the product without notice.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.



Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Safety Precautions

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials(curtains, draperies) that may block the ventilation holes.

IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS – Read the safety and operating instructions before operating the monitor.

2. RETAIN INSTRUCTIONS – Retain the safety and operating instructions for future reference.

3. CLEANING – Unplug video monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

4. ATTACHMENTS – Do not use attachments not approved by the video monitor manufacturer as they may result in the risk of fire, electric shock or injury.

5. WATER AND MOISTURE – Do not use video monitor near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

6. ACCESSORIES – Do not place video monitor or equipment on an unstable cart, stand or table. The video monitor or equipment may fall, causing serious injury and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

7. CARTS – Video monitor and cart combinations should be moved with care. Quick stops, excessive force and uneven surfaces may cause the equipment and cart combination to overturn.

8. VENTILATION – Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the video monitor and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video monitor on a bed, sofa, rug or other similar surface. Video monitor should never be placed near or over a radiator or heat register. Video monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

9. POWER SOURCES – Video monitor should be operated only from the type of power source indicated on the marking label. If you are not certain of the type of power supply you have, consult your video monitor dealer or local power company.

10. GROUNDING OR POLARIZATION – This video monitor may be equipped with a polarized alternating-current line plug (a plug with one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. If your video monitor is equipped with a three-wire grounding-type plug (a plug having a third grounding pin), this plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

11. POWER CORDS – Do not allow anything to rest on the power cord. Do not locate video monitor or equipment where the cord can be damaged by persons walking on it.

12. HEED WARNINGS – Follow all instructions marked on the video monitor.

13. LIGHTNING – During lightning storms or when the monitor will be left unattended and unused for long periods, unplug the monitor and associated equipment from the wall outlet. This will prevent damage to the video equipment caused by lightning and power-line surges.

14. OVERLOADING – Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

15. OBJECT AND LIQUID ENTRY – Never push objects of any kind into video monitor through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

16. SERVICING – Do not attempt to service video monitor as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17. DAMAGE REQUIRING SERVICE – Unplug video monitor and equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

A. When the power-supply cord or the plug has been damaged.

B. If liquid has spilled, or objects have fallen into the monitor.

C. If the monitor has been exposed to rain or water.

D. If the monitor does not operate normally when following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to its normal operation.

E. If the monitor has been dropped or the cabinet damaged.

F. When the monitor exhibits a distinct change in performance, this indicates a need for service.

18. REPLACEMENT PARTS – When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

19. SAFETY CHECK – Upon completion of any service or repairs to the monitor, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

20. FIELD INSTALLATION – Installation should be performed by a qualified service person and should conform to all local codes.

FCC COMPLIANCE STATEMENT

INFORMATION TO THE USER: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS B DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE IN A RESIDENTIAL INSTALLATION. THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. HOWEVER, THERE IS NO GUARANTEE THAT INTERFERENCE WILL NOT OCCUR IN A PARTICULAR INSTALLATION. IF THIS EQUIPMENT DOES CAUSE HARMFUL INTERFERENCE TO RADIO OR TELEVISION RECEPTION, WHICH CAN BE DETERMINED BY TURNING THE EQUIPMENT OFF AND ON, THE USER IS ENCOURAGED TO TRY TO CORRECT THE INTERFERENCE BY ONE ON MORE OF THE FOLLOWING MEASURES :

- REORIENT OR RELOCATE THE RECEIVING ANTENNA
- INCREASE THE SEPARATION BETWEEN THE EQUIPMENT AND RECEIVER.
- CONNECT THE EQUIPMENT INTO AN OUTLET ON A CIRCUIT DIFFERENT FROM THAT TO WHICH THE RECEIVER IS CONNECTED.
- CONSULT THE DEALER OR AN EXPERIENCED RADIO/TV TECHNICIAN FOR HELP

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

THIS PRODUCT COMPLIES WITH VARIOUS OTHER REGIONAL AND SAFETY REGULATIONS SUCH AS: UL, CUL, CE. THESE CERTIFICATIONS ARE NOTED ON THE PRODUCT LABEL.

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Chapter 1 – Introduction

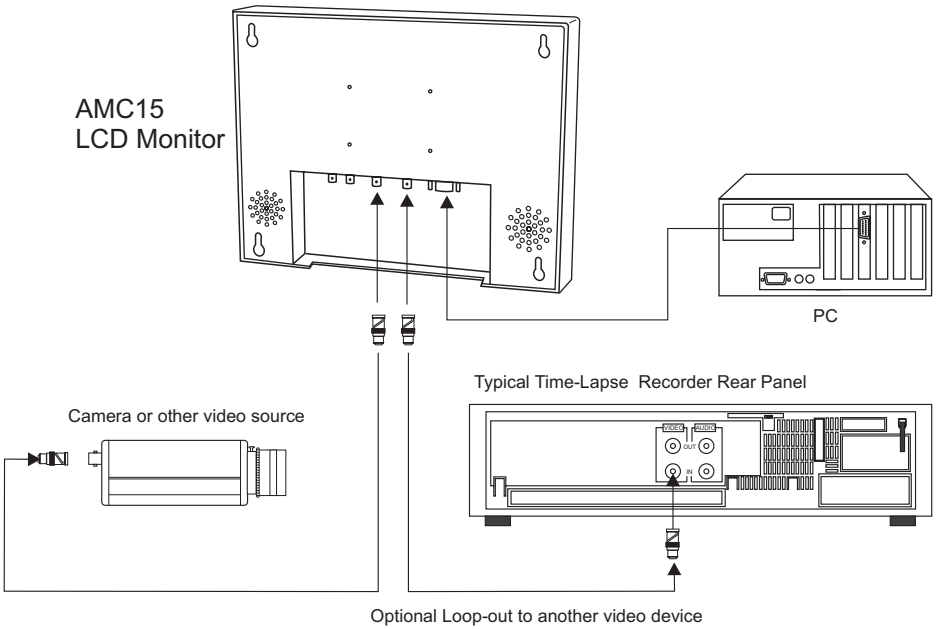


Figure 1 -Typical configuration

Features

- Go-Anywhere Professional Color LCD Monitor
- Bright, High Quality Picture
- NTSC and PAL Composite and Y/C Connectors.
- Thin and Lightweight, Rugged Metal Cabinets
- Many Mounting and Installation Options
- Low Power Consumption. - 12 Volts DC Operation.

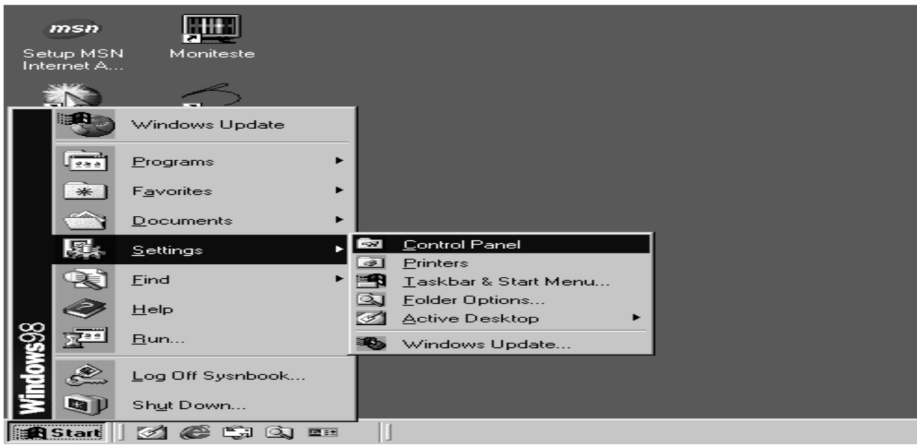
Chapter 2 – Installation

LCD monitors may be mounted in any position or orientation. Considerations for mounting include regard for how the monitor is going to be used, routing of connecting cords, and locations away from heat sources (including direct sunshine on the black case).
Mounting attatchment points include 10-32 inserts.
Cooling is not required, but some airflow around the case will
allow the small amount of heat to be dissipated.
Power is required from a regulated supply (provided) or other 12 volts DC source. The noise on the supply must be below 100 mVpp.

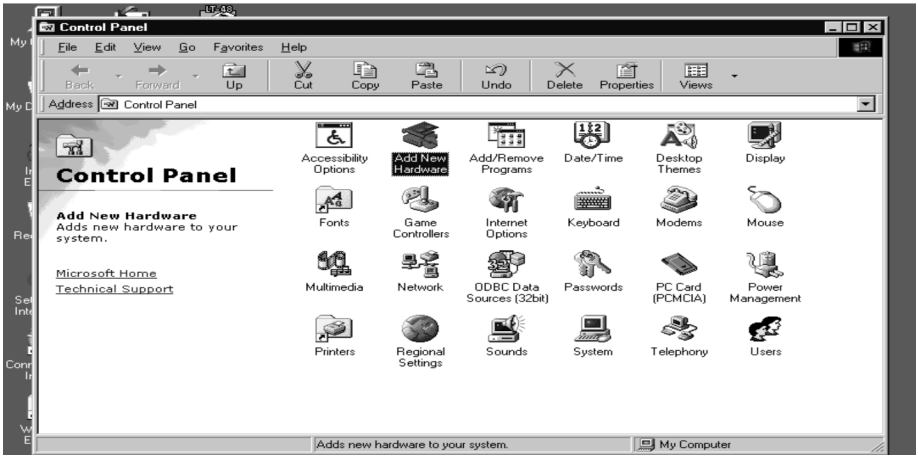
CAUTION: Many portable battery systems, including automobiles, with a nominal 12 VDC supply often have power spikes and can operate as high as 18 VDC while charging. Make certain your power supply meets the 12 VDC ±10% requirements.

Plug and Play
The VESA plug and play standard eliminates a complicated, time consuming setup. It allows you to connect your monitor to a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display.

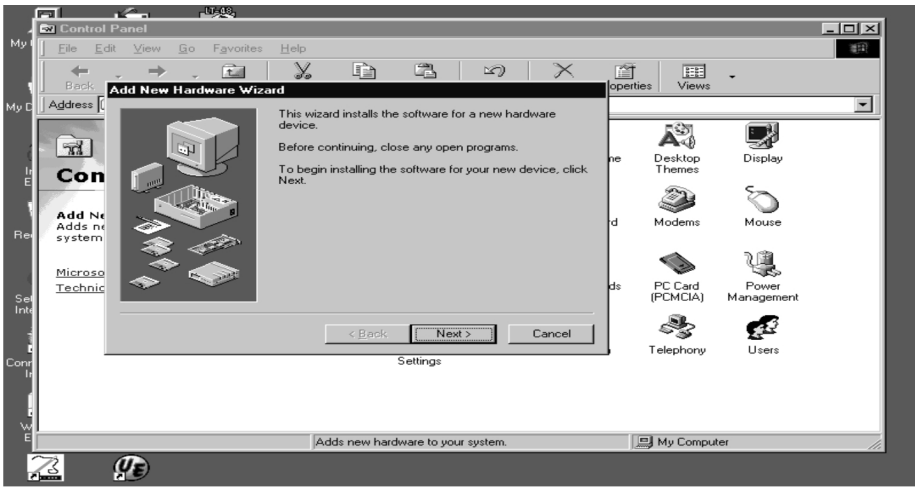
Installing the Video Driver (Windows 95/98)
To install the Video driver, refer to the following sequence.



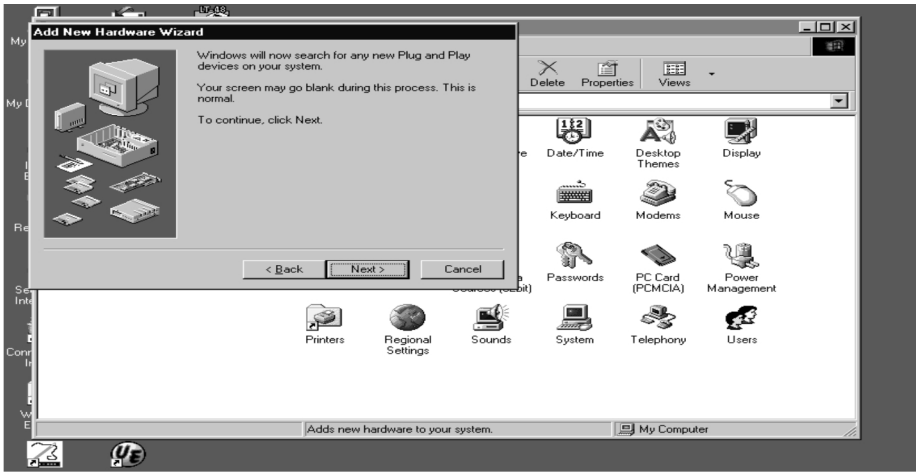
Select **Start/Setting/Control Panel.**



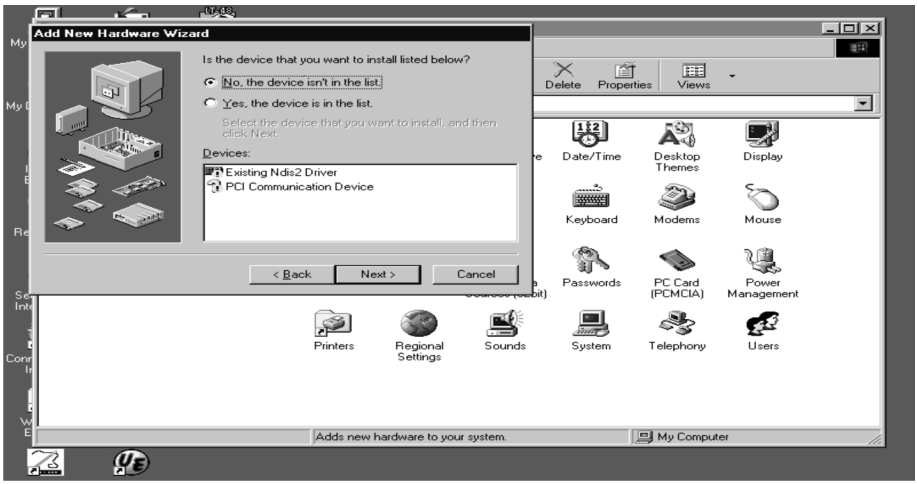
Click **Add New Hardware**.



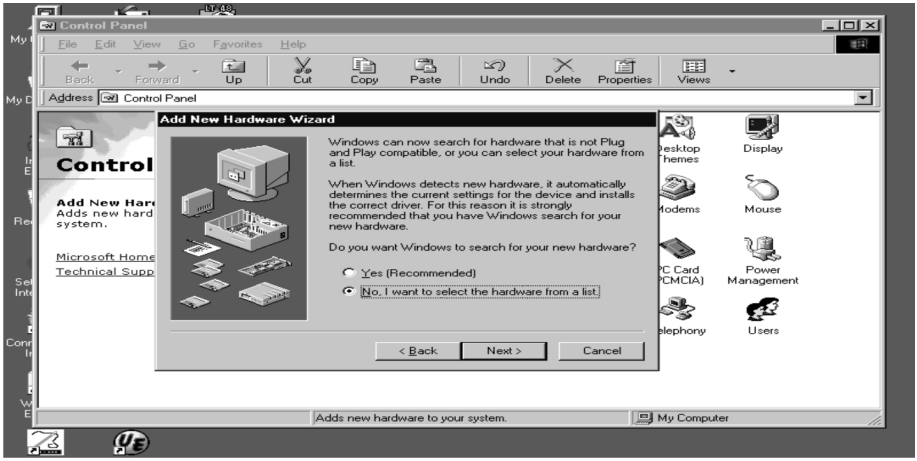
Click **Next**.



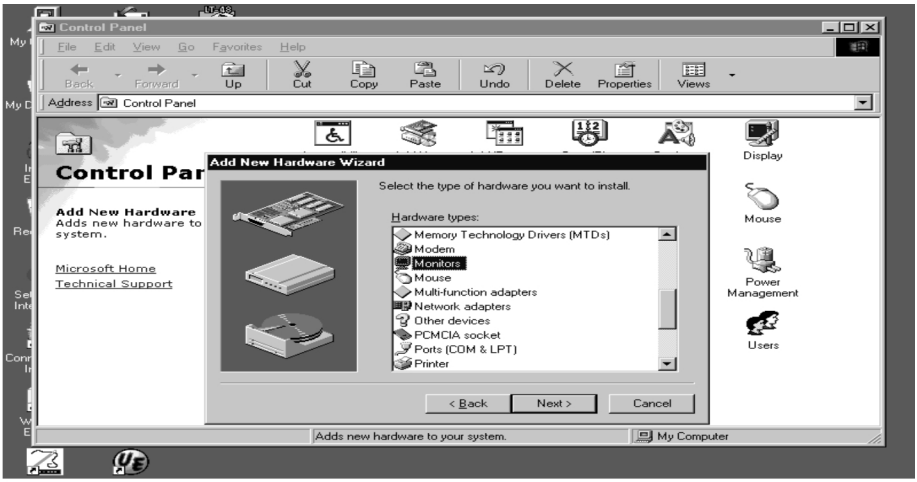
Click **Next**.



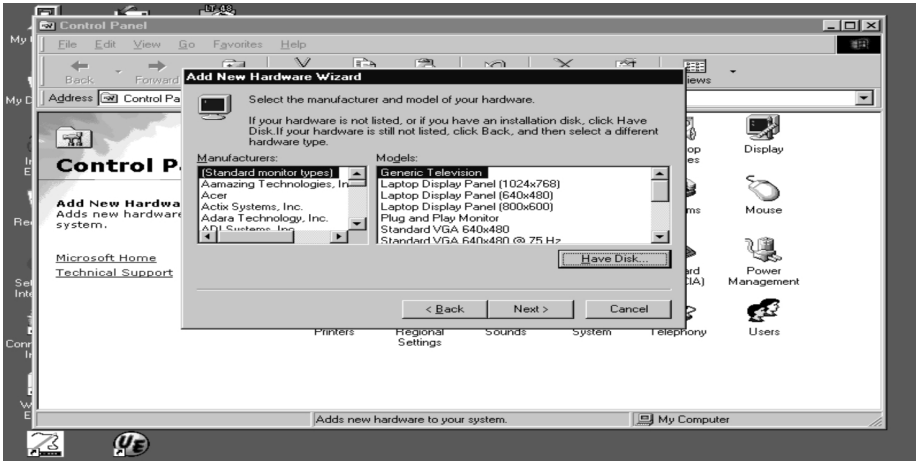
Click **Next** after selecting **No, the device isn't in the list**.


Control Panel
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Control Panel
Add New Hardware Wizard
Windows can now search for hardware that is not Plug and Play compatible, or you can select your hardware from a list.
When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver. For this reason it is strongly recommended that you have Windows search for your new hardware.
Do you want Windows to search for your new hardware?
Yes (Recommended)
No, I want to select the hardware from a list.
< Back
Next >
Cancel
Display
Mouse
Power Management
Users
Adds new hardware to your system.
My Computer

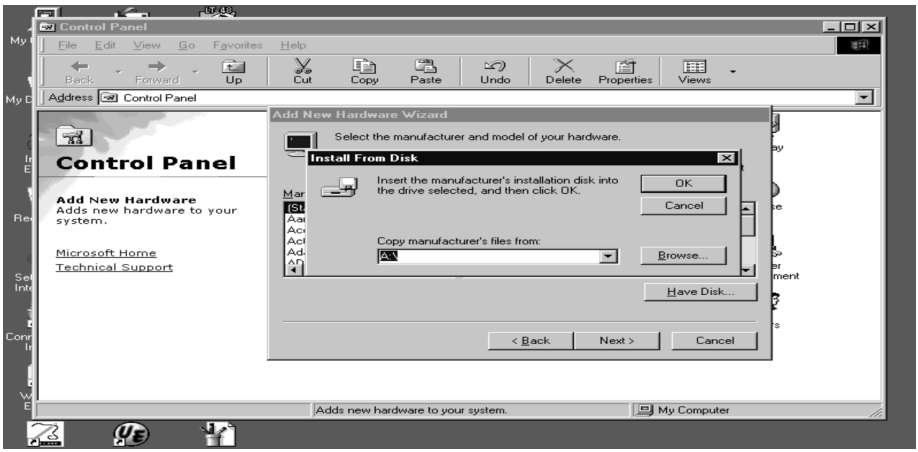
Click **Next** after selecting **No, I want to select the hardware from a list**.



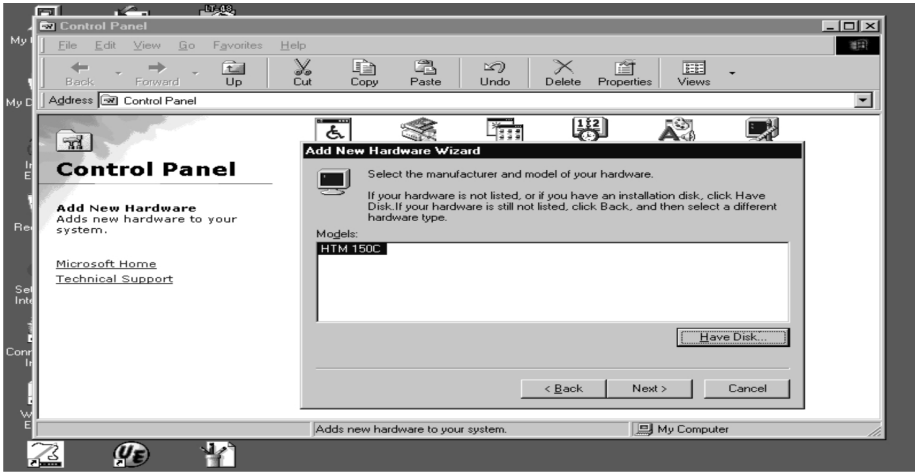
Click **Next** after selecting **Monitors**.



Click **Have Disk...**.



Insert the supplied 3.5 floppy disk in A Drive.
Select **OK**.


Control Panel
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Control Panel
Control Panel
Add New Hardware
Adds new hardware to your system.
Microsoft Home
Technical Support
Add New Hardware Wizard
Select the manufacturer and model of your hardware.
If your hardware is not listed, or if you have an installation disk, click Have Disk. If your hardware is still not listed, click Back, and then select a different hardware type.
Models:
HTM 150C
Have Disk...
< Back
Next >
Cancel
Adds new hardware to your system.
My Computer

Select **Next** after selecting the same model which you purchased.

Control Panel
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo Delete Properties Views
Address Control Panel
Control Panel
Add New Hardware
Adds new hardware to your system.
Microsoft Home
Technical Support
Add New Hardware Wizard
Windows can continue installing your hardware now.
To continue installing the software needed by your hardware, click Finish.
< Back
Finish
Cancel
Adds new hardware to your system.
My Computer

Click **Finish**.

Microsoft® Windows® 2000 Operating System

1. Click **"Start"**, **"Setting"**, **"Control Panel"**.
2. Double click the **"Display"** Icon.
3. Choose the **"Settings"** tab and then click **"Advanced.."**.
4. Choose **"Monitor"**.
   Case1: If the "Properties" button is inactive, it means your monitor is properly configured. Please stop the installation; there is no need to continue.
   Case2: If the "Properties" button is active, click the "Properties" button then follow next steps continuously.
5. Click **"Driver"** and then click on **"Update Driver..."** then click on the **"Next"** button.
6. Choose **"Display a list of the known drivers for this device so that I can choose a specific driver"** then click **"Next"** and then click **"Have disk"**.
7. Click the **"Browse"** button then choose **A:.**
8. Click the **"Open"** button, then click **"OK"** button.
9. Choose **15" LCD** and click the **"Next"** button then click the **"Next"** button again.
10. Click the **"Finish"** button then the **"Close"** button.
    If you can see the **"Digital Signature Not Found"** window then click the **"Yes"** button.
    And click the **"Finish"** button then the **"Close"** button.

Microsoft® Windows® Millennium Operating System

1. Click **"Start"** , **"Setting"** , **"Control Panel"**.
2. Double click **"Display"** icon.
3. Select the **"Settings"** tab and click the **"Advanced Properties"** button.
4. Select the **"Monitor"** tab.
5. Click the **"Change"** button in the **"Monitor Type"** area.
6. Choose **"Specify the location of the driver"**.
7. Choose **"Display a list of all the drivers in a specific location.."** then click **"Next"** button.
8. Click the **"Have Disk"** button
9. Specify A: then click the **"OK"** button.
10. Select **"Show all devices"** and choose **15" LCD** and click **"OK"**.
11. Continue by choosing the **"Close"** button and **"OK"** button until you close the Display Properties dialogue box.
    (If other warning screens appear, select the appropriate options for your monitor.)

Microsoft® Windows® XP Operating System

1. Click **"Start" > "Control Panel"** then click the **"Appearance and Themes"** Icon.
2. Click the **"Display"** icon and choose the **"Settings"** tab then click **"Advanced.."**.
3. Click the **"Properties"** button on the **"Monitor"** tab and select the **"Driver"** tab.
4. Click **"Update Driver..."** and select **"Install from a list or.."** then click the **"Next"** button.
5. Select **"Don't search, I will..."** then click **"Next"** and then click **"Have disk"**.
6. Click the **"Browse"** button then choose A: and choose **15" LCD** and click the **"Next"** button.
7. If you see a **"Message"** window stating that the driver has not passed Window® testing, click the **"Continue Anyway"** button. The click **"OK"** button.
   Although the monitor driver is not certified by Microsoft,® it will not damage your system.
8. Click the **"Close"** button then click the **"OK"** button repeatedly.
9. The Monitor driver installation is completed.

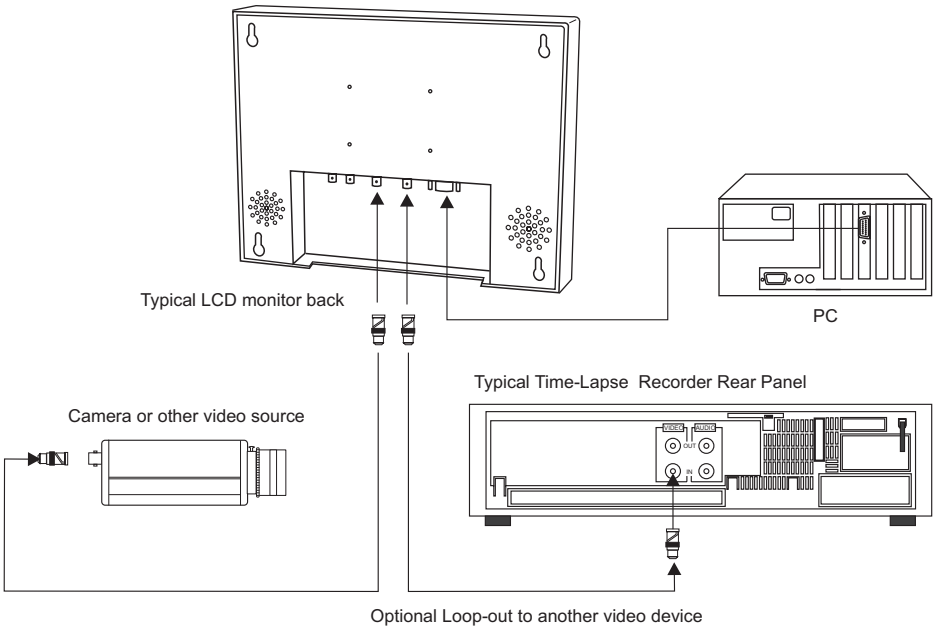
Microsoft® Windows® NT Operating System

1. Click **"Start"**, **"Settings"**, "**Control Panel"**, and then double-click **"Display"** icon.
2. In the Display Registration Information window, click the Settings Tab and then click **"All Display Modes"**.
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click **"OK".**
4. Click the **"Apply"** button if you see the screen operating normally after clicking Test. If the Screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).
   Note: If there is no Mode at **"All Display Modes",** select the level of resolution and vertical frequency by referring to the Preset Display Modes in the user guide.

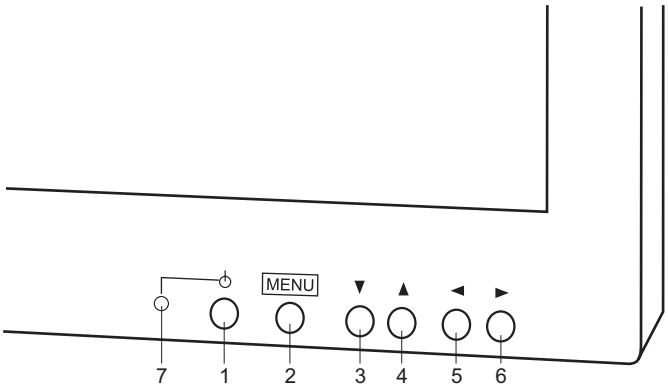
CONNECTIONS

To make a normal connection to the monitor, route a cable from a camera or other video source to one of the BNC jacks or from a PC to the PC jack on the back of the monitor. Either the left or right BNC jack can be used for input.
The other jack may be connected to another device using the same input signal..

Auto Termination
The input circuit of the monitor normally terminates the incoming cable with 75Ω, but these BNC connectors are auto-terminating. When two cables are connected, the internal termination is switched off, letting the last unit in the system provide the end termination. The Y/C (S-Video) jacks function this way as well.



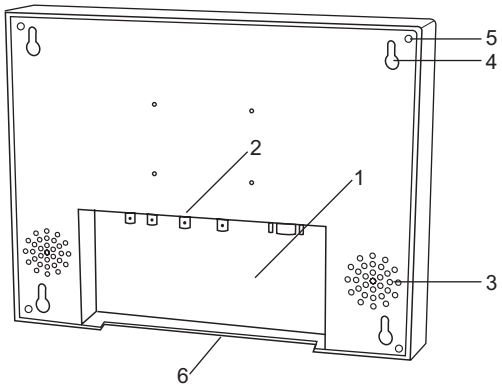
Chapter 3 – Operation



Control Buttons, Video Monitor Front.
Use a cloth dampened with a mild cleaner to clean the screen.

Figure 2 - Front panel controls

1. **Power On/Off**
   When power is applied, the monitor will come on. This button then turns the monitor on and off.
2. **Menu On/Off**
   This button is used to display or turn off the control menu.
3. **Select Down**
   This button is used to move down the menu list.
4. **Select Up**
   This button is used to move up through the menu list.
5. **Decrement**
   Pressing this button decreases the value of the chosen item.
   For some items, the button will change the setting to ' On '
6. **Increment**
   Pressing this button increases the value of the chosen item.
   For some items, the button will change the setting to ' Off '
7. **LED**
   A green indicator lights when the power is on. (The indicator will not light when the power is off.) The indicator blinks when the monitor goes into the standby mode (PC mode).



Typical Color LCD Video Monitor Back

Figure 3 - Rear panel connectors

1. **Input Connector Recess**
   Recessed wiring location for all cables. Connect the plug from the supplied table-top power supply into the 12 VDC connector. Input at the monitor is 12 volts DC from the TT universal AC supply (100-240 VAC, see specifications table for AC/DC details).
2. **Input Video BNC (and Y/C) and PC Connectors**
   Attach the video cable from a camera, VCR, or other source here. Either left or right, BNC or Y/C socket, can be input or output. The connector have auto-termination switches inside. See Connections, below.
3. **Speakers**
   Audio inputs are high impedance using RCA jack connections, left (white) and right (red). Inserting only a single plug will make a connection to both speakers (dual monaural).
4. **Mounting Keyholes**
   You may hang monitors on a wall using screw or nail heads. The heads should not enter the monitor deeper than 1/4 " (6 mm).
5. **Threaded Mounting Socket**
   The threaded sockets are hardpoints for mounting the monitor. You may mount it in any orientation. The screws must not insert deeper than 1/4 " (6 mm). The threads are 10-32 UNC.

USER CONTROLS - Menu Operations

PC

Brightness	: 25
Contrast	: 41
Clock	: 125
Phase	: 16
Auto	: Stop
H Position	: 0
V Position	: 0
RGB Offset	: 0
Image Effect	: 5
Volume	: 10
Language	: English
Input	: PC
Recall	: No

Pressing the MENU button will bring up the Menu shown above.
Select the item you want to adjust using the ▼, ▲ buttons
As shown, the Brightness may be adjusted with the ◀ or ▶ buttons.
To exit the menu, press the MENU button.
(This process stores the new settings which you have selected.)

Brightness is used to adjust the light output of the darkest areas of the picture to black.
Contrast is used to adjust the light output of the brightest areas of the picture to White.
Clock is used to adjust best picture quality. The clock adjusts the number of pixels in the horizontal line. Therefore it can affect the picture poisition and size horizontally.
Phase is used to adjust best picture quality. It adjusts the sampling phase across one pixel time. When the phase is not adjusted properly, the picture quality is not good. Therefore this value should be carefully adjusted.
Auto
Select "Yes" using ◀ or ▶ buttons to adjust the best picture quality automatically. Execute repeatedly if the picture quality is not good.
H Position is used to adjust the horizontal position of the image on the screen.
V Position is used to adjust the vertical position of the image on the screen.
RGB Offset
RGB Offset is used to adjust the video input range. When the bright areas of the picture is too high (low), increase (decrease) the RGB Offset value.
Image Effect is used to soften or sharpen the image.
Volume controls the output of the internal speakers.

Language : English sets the OSD language of the menu to English.
Deutsch sets the OSD language of the menu to German.
Français sets the OSD language of the menu to French.
Italiano sets the OSD language of the menu to Italian.
Español sets the OSD language of the menu to Spanish.
Polski sets the OSD language of the menu to Polish.

Input selects between the PC, composite (BNC) or Y/C (4 pin S-video) for the video source.

Recall sets the monitor to the original factory setting.

VIDEO

Volume	: 10
Contrast	: 41
Brightness	: 23
Sharpness	: 5
Color	: 30
Tint	: 25
Language	: English
Scaler Motion	: Motion
Under Scan	: OFF
Input	: CVBS
Filter	: OFF
AFC	: Fast
DVCO	: 25
Recall	: No

Pressing the MENU button will bring up the Menu shown above.
Select the item you want to adjust using the ▼, ▲ buttons
As shown, the Brightness may be adjusted with the ◀ or ▶ buttons.
To exit the menu, press the MENU button.
(This process stores the new settings which you have selected.)

Volume controls the output of the internal speakers.

Contrast is used to adjust the light output of the brightest areas of the picture to white.

Brightness is used to adjust the light output of the darkest areas of the picture to black.

Tip: Use the Brightness to make the details in the dark areas of the picture to be just visible, and Contrast to "brighten" the picture without causing facial features to turn white.

Sharpness adjusts the sharpness of the picture.
Tint adjusts all the colors on the screen, but is most noticeable to the eye in reds and yellows, and is also usually set for pleasing facial tones.
(Appears in NTSC mode only).
Language: English sets the OSD language of the menu to English.
Deutsch sets the OSD language of the menu to German.
Français sets the OSD language of the menu to French.
Italiano sets the OSD language of the menu to Italian.
Español sets the OSD language of the menu to Spanish.
Polski sets the OSD language of the menu to Polish.
Motion Mode changes the scanning method of the LCD monitor.
Tip: There are three methods which can be controlled.
(Still/Progressive/Motion)
Still and Progressive modes are progressive scan but Progressive is better than Still for moving images and Still is better than Progressive for still images. Motion uses interlace scan.
→ However, use Toggle mode when the video source contains moving images. (For example, DVD or VCR)
Under Scan adjusts the image size.
Input selects between the composite (BNC) or Y/C (4 pin S-video) inputs for the display.
Filter adjusts Filter "ON" to reduce the output video noise.
AFC (auto frequency control) is used to adjust for the skew distortion of a video signal from a recorder (or other equipment).
The options are : NORMAL, SLOW, and FAST.
DVCO is used to reduce unwanted moving vertical lines.
Tip : In some case, vertical lines flowing to the right or left appear depending on the video source.
When flowing vertical lines appear, it is convenient to reduce them by adjusting the DVCO.
Recall sets the monitor to the original factory settings.
Hot Keys Without pushing the menu button, the left(▼, ▲) and right pairs (◀, ▶) of buttons function as direct access buttons (Hot keys).
The left pair adjusts Brightness, and the right pair adjusts Volume.

Appendix A – Specifications

(15 inch)

LCD

LCD panel	15.0 inches TFT LCD Panel
Active display area (Diagonal)	15.0 inches
Pixel format	1024(H) x 768(V), RGB vertical stripe
Pixel pitch	0.297mm x 0.297mm
Color depth	6 Bit/262,144 Colors
Contrast ratio	300:1 (Typical)
Brightness	250 cd/m^2 (Typical)
Viewing angles (L/R/U/D)	70/70/55/60 (Typical)
Light source / Lifetime	4 CCFL/35,000 Hrs (Typical)
Response time(tr/td)	5/20 ms

VIDEO

Video Mode	NTSC/PAL (Auto selection)
Scanning method	Digital progressive scan (Frame/Motion mode)
Video input signals	
Composite	1.0Vp-p, 75Ω
S-video	0.7Vp-p(Luminance), 75Ω
	0.3Vp-p(Chrominance), 75Ω
Video connector	
Composite	BNC x 2
S-video	4 Pin Mini-DIN x2
Termination	75Ω, Auto termination
Audio input connector	RCA x 2 (Stereo)
Audio Amplifier	0.5W x 2
Resolution	More than 500 Lines

PC

Input signal	Analog RGB (0.714Vp-p, 75Ω), H&V Sync (TTL)
Input connector	15-pin D-sub
Input resolution	VGA 640 x 480, 60~75Hz SVGA 800 x 600, 56~75Hz XGA 1024 x 768, 60~75Hz
Plug & Play	DDC 2B
User controls	Brightness, Contrast, Tint, Color, Sharpness, etc.

OSD Language	English/French/German/Italian /Spanish/Polish
Power requirement	12VDC 3.0A
Power consumption	30 Watts
DC power connector	Barrel, 5.5/2.5mm (+Center)
AC power connector	IEC-320 Male, 100-240VAC
Dimensions	349.2mm(W) x 285.7mm(H) x44.5mm(D)
Weight	6 lbs.(2.7Kg)
Operating temperature	0°C ~ +40°C
Storage temperature	0°C ~ +50°C
Case color	Black
Case material	Aluminum
Accessories	AC Adaptor, VGA cable, Power Cord, Manual, Driver Diskette

* Design and specifications are subject to change without notice.

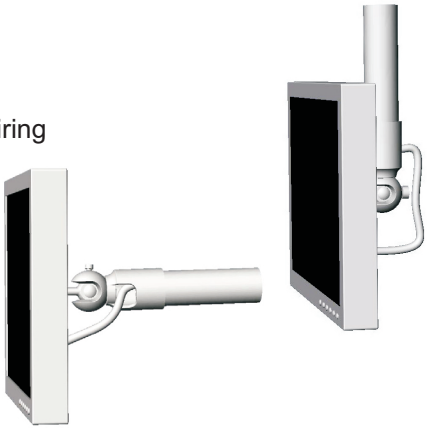
Appendix B – OSD Language Chart

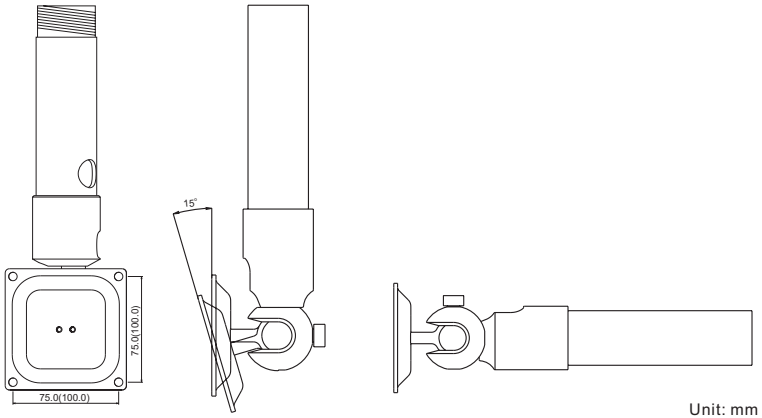
English	German	French	Italian	Spanish	Polish
No Signal	No Signal	No Signal	No Signal	No Signal	No Signal
NTSC	NTSC	NTSC	NTSC	NTSC	NTSC
PAL	PAL	PAL	PAL	PAL	PAL
Volume	Lautstärke	Volume	Volume	Volumen	Glosnosc
Contrast	Kontrast	Contraste	Contrasto	Contraste	Kontrast
Brightness	Helligkeit	Luminosite	Luminosita	Brillante	Jansnosc
Sharpness	Schärfe	Nettete	Definizione	Nitidez	Ostrosc
Color	Frabkontrast	Couleur	Colore	Color	Kolor
Tint	Tönung	Nuance	Tinta	Tinte	Odcien
Language	Sprache	Langues	Lingue	Idioma	Jezyk
English	Deutsch	Français	Italiano	Español	Polski
Motion Mode	Motion Mode	Motion Mode	Motion Mode	Motion Mode	Motion Mode
Still	Still	Still	Still	Still	Still
Progressive	Progressive	Progressive	Progressive	Progressive	Progressive
Motion	Motion	Motion	Motion	Motion	Motion
Under Scan	Under Scan	Under Scan	Under Scan	Under Scan	Under Scan
Filter	Filter	Filtre	Filtro	Filtro	Filtr
DVCO	DVCO	DVCO	DVCO	DVCO	DVCO
On	Ein	Marche	On	On	Wl
Off	Aus	Arret	Off	Off	Wyl
Input	Quelle	Input	Sorgente	Fuente	Wejście
CVBS	CVBS	CVBS	CVBS	CVBS	CVBS
Y/C	Y/C	Y/C	Y/C	Y/C	Y/C
PC	PC	PC	PC	PC	PC
Recall	Zurückrufen	Rappel	Richiamare	Recuperar	Przywoyanie
Yes	Ja	Oui	Si	Si	Tak
No	Nein	Non	No	No	Nie
Clock	Uhr	Horlage	Orodogio	Jeloz	Clock
Phase	Phase	Phase	Face	Phase	Phase
Auto	Auto	Auto	Auto	Auto	Auto
Run	Run	Run	Run	Run	Run
Stop	Stop	Stop	Stop	Stop	Stop
H Position	H Stellung	H Position	H Posizione	H Posición	H Position
V Position	V Stellung	V Position	V Posizione	V Posición	V Position
RGB Offset	RGB Offset	RGB Offset	RGB Offset	RGB Offset	RGB Offset

Appendix C – Bracket Features (Optional)

- Light duty wall & ceiling mount
- Adjustable swivel head
- Die cast and aluminum
- Cable feeds through hole concealing wiring
- PT $1^{1}/_{4}$ threaded pipe
- Maximum load 20 lb (9.0kg)

The Bracket is light duty wall & ceiling mount designed for use with LCD monitor.
This mount is for use in wall & ceiling mounting applications and is capable of supporting loads up to 20 lb (9.0kg).

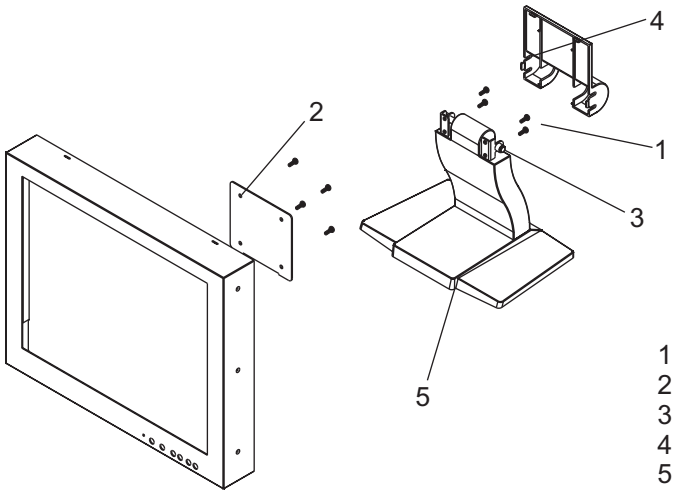




Unit: mm

Pan adjustment	Unlimited 180°
Tilt adjustment	-5° ~ 15° (up or down)
LCD mounting	four(4) M4 x 15L
	machine screw (supplied).
Construction	Die cast and aluminum
Finish	Light-gray polyester powder coat
Maximum load	20 lb (9.0kg)
Dimension	See dimensional outline
Weight	Unit Shipping
	4.4lb (2.0kg) 3.5lb (2.5kg)

Appendix D – Stand Features (15", Optional)



1. SCREW
2. BRACKET
3. HINGE
4. HINGE_COVER
5. STAND

In order to install the desk-top stand at LCD monitor properly,
First, fix the metal plate provided to the hinge of desk-top stand with 4 screws of M4 size and screw the desk-top stand to LCD monitor. Lastly, put the plate cover on the hole located on the rear side of LCD monitor .

Note: Because the metal plate has VESA standard mounting holes at 75mm intervals, it can be used with other VESA standard monitors.

Tilt adjustment	-5° ~ 30° (up or down)	
LCD mounting	eight (8) M4 x 8L	
Construction	Plastic and Metal	
Finish	Paint	
Maximum load	4.5kg	
Dimensions	256.5mm x 165mm x 190mm	
	With 15" (Height): 355mm	
	With 17" (Height): 371.25mm	
Weight	Unit	Shipping
	1.2kg	1.5kg

Appendix E – Troubleshooting

Problem	Possible Solution
No Video	Check that all components in the system (monitor, cameras, VCRs, multiplexers, etc.) have power and are turned on. Check that the camera lens cap is removed and the lens is set to proper aperture. Check cable(s) for proper connections and condition. Connect a known good video source directly to the monitor to make certain the monitor is not the Problem.
Bad Video	If no video equipment is "looped through" the monitor, make certain that a cable is NOT connected to the loop-through connector.
Poor video quality	Adjust the *Contrast, Brightness* and *Color* settings.
Picture too bright or too dark	Check that the lens aperture is set correctly. Adjust the *Brightness* setting.
Fuzzy Video	If the camera has a manual focus lens, check that it is properly focused. If the camera has an autofocus lens, ensure that it is working properly. Check that the back focus ring on the camera has been adjusted correctly. Check that the lens and housing window are clean.

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